



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:) Before the Examiner
 Hai H. Trieu)
 Serial No. 10/630,092)
 Filed July 30, 2003) Group Art Unit 1712
)
 BIOACTIVE NANOCOMPOSITES)
 AND METHODS FOR THEIR USE) November 7, 2005

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
 PO Box 1450
 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to the duty of disclosure in accordance with 37 C.F.R. §1.56, Applicant wishes to bring to the attention of the Examiner the items of information listed on the enclosed Information Disclosure Citation Form. This information has not been previously submitted in this application, and has not been heretofore cited previously by the Examiner. Copies of all foreign patent documents and/or non-patent literature are enclosed in accordance with 37 CFR 1.98(a). Copies of cited U.S. patents and patent applications are not enclosed pursuant to 37 CFR 1.491(b).

11/10/2005 CNGUYEN 00000066 10630092
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Information Disclosure Statement
 Hai H. Trieu
 Attorney Dkt. 4002-3367

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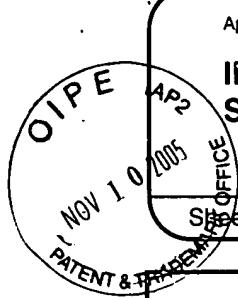
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on
November 7, 2005
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Timothy N. Thomas
Name of Registered Representative
<i>Timothy N. Thomas</i>
Signature
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Date of Signature

The filing of this Information Disclosure Statement shall not be construed as an admission that the information cited is, or is considered to be, material to patentability as defined in §1.56(b).

This Statement is being submitted after the mailing of a First Office Action on the merits but before the mailing of a Final Office Action or Notice of Allowance, therefore the required fee of \$180.00 under 37 CFR 1.97(c) is enclosed for consideration of the same. The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 23-3030, but not to include any payment of issue fees.

Respectfully submitted,

By Timothy N. Thomas
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Applicant's Substitute for 1449A⁷

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

54

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Complete if Known	
Application Number	10/630,092
Filing Date	July 30, 2003
First Named Inventor	Hai H. Trieu
Group Art Unit	1712
Examiner Name	Unknown
Attorney Docket Number	4002-3367/PC477.02

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		4,131,597		Bluethgen et al.	12/26/78	
		4,192,021		Deibig et al.	03/11/80	
		4,437,836		Schmitz-Josten et al.	03/20/84	
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		4,776,890		Chu	10/25/88	
		4,888,366		Chu et al.	12/19/89	
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		5,002,582		Guire et al.	03/26/91	
		5,015,247		Michelson	05/14/91	
		5,035,715		Smestad et al.	07/30/91	
		5,091,344		Enomoto et al.	02/25/92	
		5,123,925		Smestad et al.	06/23/92	
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		5,273,964		Lemons	12/28/93	
		5,320,844		Liu	06/14/94	

FOREIGN PATENT DOCUMENTS

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached. ⁷In-house version of PTO/SB/08A (10-96).

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Applicant's Substitute for 1449A ⁷				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/630,092
				Filing Date	July 30, 2003
				First Named Inventor	Hal H. Trieu
				Group Art Unit	1712
				Examiner Name	Unknown
Sheet	2	of	5	Attorney Docket Number	4002-3367/PC477.02

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		Number	Kind Code ² (if known)			
		5,338,772		Bauer et al.	08/16/94	
		5,364,399		Lowery et al.	11/15/94	
		5,380,298		Zabetakis	01/10/95	
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		5,669,909		Zdebllick et al.	09/23/97	
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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/630,092
(use as many sheets as necessary)		Filing Date	July 30, 2003
		First Named Inventor	Trieu
		Group Art Unit	1712
		Examiner Name	Unknown
Sheet	3	of	5
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		Country Code ² -Number ³ -Kind Code ⁵ (if known)				
		WO 00/57932	10/05/2000	Brigham & Womens Hospital		
		WO 01/01930	01/11/2001	Henkel, KGAA		
		WO 01/54746	08/02/2001	Advanced Research and Technology Inst., Inc.		
		WO 02/22117	03/21/2002	Zakrytoe		

Examiner Signature		Date Considered	
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. ⁵

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Atty. Docket No. 4002-3367/PC477.02	Serial No. 10/630,092
		Applicant Hai H. Trieu	
Page 4 of 5		Filing Date July 30, 2003	Group 1712
Examiner Initial		PUBLICATION	
		Allograft Catalog, University of Florida Tissue Bank, Inc., LIT.UF.CT96 Rev. A/98	
		Tangent Cortical Wedge Mechanical Testing, Regeneration Technologies, Inc., ©1999 RTI	
		Flahiff, C.M. et al., "Analysis of a biodegradable composite for bone healing", <u>Journal of Biomedical Materials Research</u>, 32:419-424 (1996)	
		Verheyen, C.C.P.M. et al., "Hydroxylapatite/poly(L-lactide) composites: An animal study on push-out strengths and interface histology", <u>Journal of Biomedical Materials Research</u>, 27:433-444 (1993)	
		Verheyen, C.C.P.M. et al., "Evaluation of hydroxylapatite/ poly(L-lactide) composites: Mechanical behavior", <u>Journal of Biomedical Materials Research</u>, 26:1277-1296 (1992)	
		Furukawa, T. et al., "Histomorphometric study on high-strength hydroxyapatite/poly(L-lactide) composite rods for internal fixation of bone fractures", <u>Journal of Biomedical Materials Research</u>, 50:410-419 (2000)	
		Yasunaga, T. et al., "Bonding behavior of ultrahigh strength unsintered hydroxyapatite particles/poly(L-lactide) composites to surface of tibial cortex in rabbits", <u>Journal of Biomedical Materials Research</u>, 47:412-419 (2000)	
		Watanabe, S. et al., "Traumatic Sternal Segment Dislocation in a Child", <u>CHEST</u>, 96(3):684-686 (1989)	
		Shikinami, Y. et al., "Bioresorbable devices made of forged composites of hydroxyapatite (HA) particles and poly-L-lactide (PLLA): Part I. Basic characteristics", <u>Biomaterials</u>, 20:859-877 (1999)	
		Doyle, C. et al., "In vitro and in vivo evaluation of polyhydroxybutyrate and of polyhydroxybutyrate reinforced with hydroxyapatite", <u>Biomaterials</u>, 12:841-847 (1991)	
		Higashi, S. et al., "Polymer-hydroxyapatite composites for biodegradable bone fillers", <u>Biomaterials</u>, 7:183-187 (1986)	
		Bonfield, W. et al., "Hydroxyapatite reinforced polyethylene - a mechanically compatible implant material for bone replacement", <u>Biomaterials</u>, 2:185-186 (1981)	
		Hamadouche, M. et al., "The In vivo Bioactivity of Sol-Gel Bioactive Glasses Coated Alumina Implants", 46th Annual Meeting, Orthopaedic Research Society, 0174 (2000)	
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Page 5 of 5		Atty. Docket No. 4002-3367/PC477.02	Serial No. 10/630,092
		Applicant Hai H. Trieu	
		Filing Date July 30, 2003	Group 1712
Examiner Initial		PUBLICATION	
		Orefice, R.L. et al., "Processing and Characterization of Bioactive Polysulfone-Bioglass® Composites", <u>Bioceramics</u> , 8:409-414, Eds. Wilson, J. et al., Florida, USA, Perganon (1995)	
		Liu, Qing et al.: "Nano-apatite/polymer composites: mechanical and physicochemical characteristics". BIOMATERIALS, 1997 Elsevier Science Limited, GB. ISSN: 0142-9612	
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